DS-GM1010 GM Series

NOTICE OF INTENDED INSTALLATION AND USE

THE ROSEN MULTI-MEDIA NAVIGATION SYSTEMS CONTAIN AN INTERNAL VIDEO PLAYER, WHICH IS NOT INTENDED FOR VIEWING BY THE DRIVER. THE VIDEO PLAYER IS DISABLED WHEN THE VEHICLE IS IN MOTION THROUGH A CONNECTION TO THE PARKING BRAKE.

THE INSTALLER OF THIS PRODUCT MUST INSURE THE VIDEO DISABLE CONNECTION IS WORKING PROPERLY PRIOR TO DELIVERY OF THE VEHICLE.

IMPROPER INSTALLATION COULD DISTRACT THE DRIVER OR INTERFERE WITH SAFE OPERATION OF THE VEHICLE, WHICH COULD RESULT IN SERIOUS INJURY OR DEATH, AND COULD ALSO VIOLATE STATE AND/OR FEDERAL LAW.

ROSEN ENTERTAINMENT SYSTEMS DISCLAIMS ANY LIABILITY FOR ANY BODILY INJURY OR PROPERTY DAMAGE THAT MAY RESULT FROM ANY IMPROPER OR UNINTENDED INSTALLATION AND/OR USE.

	STOP Damage to the vehicle may occur Do not proceed until process has been completed
	CAUTION Process must be carefully observed in order to reduce the risk of damage to the accessory or vehicle
	CRITICAL Process must be carefully observed in order to ensure a quality installation
	TOOLS and EQUIPMENT Specific tools and equipment recommended for this process
	SAFETY RISK Observe safe practices, this process can be dangerous and there is a risk of personal injury
	TESTING and TROUBLESHOOTING Content specific testing and troubleshooting points

Copyright 2010 all rights reserved

Identify the Vehicle Audio System

The first step you need to complete
Is to CONFIRM the Vehicle Audio System before you proceed. The Rosen Nav Systems are specifically designed to be CONFIGURED to work in appropriate vehicles.

STEP 1a

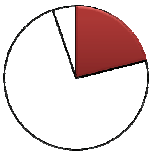
This System can be *Configured* to work in ALL Audio Platforms

Using the wrong Configuration will cause various audio performance problems

See the Trouble Shooting at the end of this Install Guide for symptoms

SOME VEHICLES ARE NON-AMP

These are typically the very low-end vehicles and work trucks. They will not have any BOSE logos on the vehicle



CONFIGURE THIS WAY

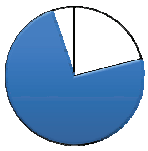
USE HARNESS: DP-GM1016

INSTALLER SETTING MENU: CENTER PT = OFF

MOST VEHICLES ARE STD-AMP

These are typically the mid-range vehicles

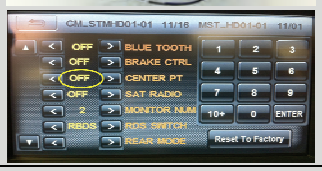
. They may have any BOSE logos on the vehicle



CONFIGURE THIS WAY

USE HARNESS: DP-GM1012

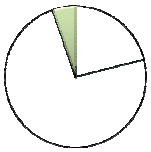
INSTALLER SETTING MENU: CENTER PT = OFF



FEW VEHICLES ARE CENTERPOINT

These are the high-end vehicles including all GMC Yukon/Sierra Denalis.

They may have BOSE logos on the vehicle



CONFIGURE THIS WAY

USE HARNESS: DP-GM1012

INSTALLER SETTING MENU: CENTER PT = ON

STILL NOT SURE…???
Go To STEP 1b

Check the Vehicle RPO Codes

as shown on the next page

Copyright 2010 All Rights Reserved

Identify the Vehicle Audio System

STEP 1b

The first step you need to complete
Is to CONFIRM the Vehicle Audio System before you proceed. The Rosen Nav Systems are specifically designed to be CONFIGURED to work in appropriate vehicles.

USING THE RPO CODES

You can use the Regular Production Order (RPO) Codes to determine the Audio Platform Type. These codes, along with the Vehicle Trim can be used as noted below.

THE RPO CODES

You will find the RPO Codes located in the Glove Box

These Codes and the Trim Level of the Vehicle are needed to identify the Audio Platform Type.

*(**Note**: RPO codes are in Alphabetical order from Right to Left)*

SERVICE PARTS IDENTIFICATION
DO NOT REMOVE
3GCRCREA4AG113760
AE7 AJ1 AJ7 AL0 AM1 ASF AT8 AU0 AU3 AXK A31
A68 B30 B32 B33 B85 C5U C67 DK8 DL8 EF7 E63
FU8 GCZ GU5 JF3 JL4 KG3 K34 L20 MSL M30 NP5
NU5 NZ4 N15 PY9 P03 QPR R00 R76 R9N R9Z SLM
SS8 T74 UE1 UJ6 UK3 UPF UQ3 US8 U2K VB3 VG3
VK3 VT7 V22 V8D WJ5 X88 YD3 YD5 YD6 YF5 ZPR
ZY1 Z83 1LS 1SZ 6YT 7YS 888 881
BC/CC U 726S 88B

BUICK: Enclave

	Trims	With RPO	Without RPO	Use Harness	Installer Setting
Non-Amp >	CX, CXL		PCU or UUJ	DP-GM1016	OFF
Std-Amp >	CX, CXL	PCU or UUJ		DP-GM1012	OFF

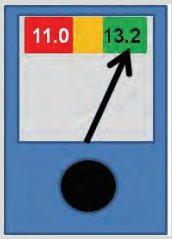
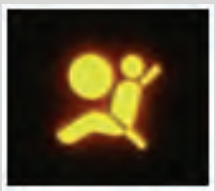
CHEV: Suburban /Tahoe/Silverado/Traverse/Avalanche

	Trims	With RPO	Without RPO	Use Harness	Installer Setting
Non-Amp >	LS, LT		UQA	DP-GM1016	OFF
Std-Amp >	LS, LT	UQA		DP-GM1012	OFF
Std-Amp >	LTZ		UQA		
CenterPoint >	LTZ	UQA		DP-GM1012	ON

GMC: Acadia / Denali* / Yukon / Sierra

	Trims	With RPO	Without RPO	Use Harness	Installer Setting
Non-Amp >	SL, SLE		UQA	DP-GM1016	OFF
Std-Amp >	SL, SLE	UQA		DP-GM1012	OFF
Std-Amp >	SLT		UQA		
CenterPoint >	SLT	UQA		DP-GM1012	ON

Copyright 2010 All Rights Reserved

PREPARING FOR THE INSTALLATION **Before you start, please read these critical steps below**		STEP 2
BEFORE YOU START THE INSTALLATION, READ THIS GUIDE!		
VISIT **Rosen Dealer Central** For the latest Updates, Corrections and Technical Tips about this product and installation www.**RosenDealerCentral**.com		
CHECK THE BATTERY Test the battery voltage to make sure it's fully charged This only takes seconds and can save hours of troubleshooting later.		
TURN THE VEHICLE *OFF* Keep the Vehicle Off during the installation to avoid setting various Vehicle Faults		
Keep the Vehicle OFF during the installation Failure to follow this may cause the AIRBAG FAULT SENSOR to become enabled. Dealer Service Departments charge a significant fee to reset the Fault Sensor.		

Copyright 2010 All Rights Reserved

REMOVE THE FACTORY RADIO

GMC Acadia Shown

You will need to remove multiple interior trim components prior to removing the factory radio. The following steps will help guide you through this process.

STEP 3

Remove Center Dash Panel

Carefully pull top of dash panel towards you

CAUTION

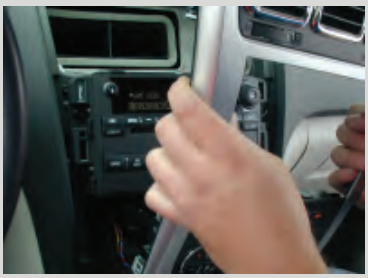
Remove Lower Part of Dash

Carefully remove lower portion of dash

CAUTION

Removing Dash Panel

Carefully remove dash panel and set aside
(Note: No need to disconnect climate controls on Acadia!)



CAUTION

Remove Mounting Screws

Remove 4 radio mounting screws

Remove Radio

Remove OE radio and unplug all connections
(Non-Bose system shown)

CAUTION

Copyright 2010 All Rights Reserved

LOCATING REMOTE COMPONENTS

You will need to mount the GPS and Optional Satellite Radio Antennas on the exterior of the vehicle. And mount the iPod Interface Connector in the vehicle. The following steps will help guide you through this process.

STEP 4

Use Caution around SRS Components

It is the **installer's responsibility** to ensure that the safety equipment in the vehicle is **NOT** adversely affected by installation of this system. Ensure that the routing of the harnesses do NOT obstruct airbags, SRS or other safety devices.

Mount the GPS and Sat Radio antenna in a location on the exterior of the Vehicle

Route the GPS harness away from other power harnesses in the vehicle and locate the Antenna 12" away from the radio.

If the Antenna is Dash Mounted, it **MUST** be attached to a metal plate 3"x3" to ensure acceptable GPS performance

Install the iPod interface connector in a location accessible to the end-user

Locate the iPod interface module in an area which can be serviced in the future.

The iPod cable is intended to be a serviceable item, which plugs into the iPod/Sat radio Interface Module.

INSTALL THE ROSEN NAVIGATION SYSTEM

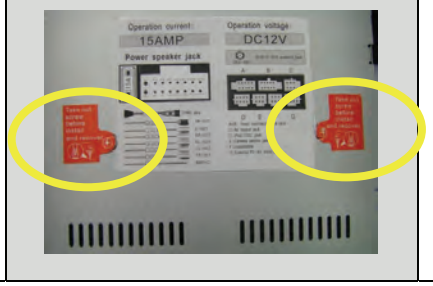
You will need to prepare the Rosen Navigation System for installation in the vehicle.

STEP 5

Remove the DVD Transport Screws

There are 2 x Phillips Transport Screws which protect the DVD Mechanism during transportation.

Transport Screws must be removed prior to installation.



Copyright 2010 All Rights Reserved

Connect the Power and GPS Harnesses

The GPS Antenna Harness must be tightened with a **WRENCH** to ensure it is properly seated.

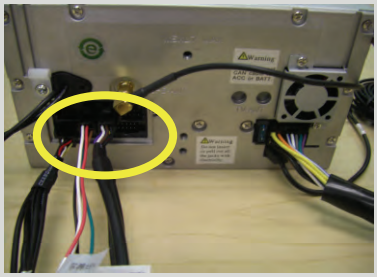
Be sure to use white cable clamp to secure GPS antenna cable

Failure to follow this step may result in poor GPS signal

Connect Optional Harnesses such as iPod, Satellite Radio, Camera, Reverse Sensors

These harnesses must be fully engaged prior to the system installation.

See the Harness Diagrams for more information



Prepare the Vehicle side harnesses for connection to the Rosen Harness

Use care not to pinch or damage cables as this will cause performance issues/failures

Engage all Connectors to the Factory Harnesses

Use the previously removed Mounting Bolts to secure the Rosen System

*If the unit does not fit **FLUSH**, check the cables for clearance, **DO NOT FORCE** the unit in.*

Re-install Dash Trim

Re-Install dash trim using caution.

Be sure that all vehicle connectors (Climate control, Hazard lights etc…) have all been reconnected **PRIOR** to starting vehicle!

Turn the vehicle ON and confirm the unit is fully operational

With the connectors **Fully Engaged**, turn the vehicle on and press the **RESET** for 5 seconds on the unit.

Copyright 2010 All Rights Reserved

Insert a DVD to confirm the Video Disable Circuit is properly Operating.

The Video Disable is provided by a Brake wire attached to the Park Brake circuit.

When attached, the wire completes a ground if the brake is engaged, to allow video playback.

Notice
Some features are not intended for viewing by the Driver while the vehicle is in motion.
For further details, please refer to the Owner's Manual

STOP

ENABLE INSTALLER SETTINGS

You will need to select certain Installer Setting based on any Optional Equipment that you may have installed

STEP 6

Launch the Installer Setting Screen

From any screen with the Menu Button, follow these steps to display the Installer Setting Screen, select:

1) From any Screen, select “Menu”
2) From the Menu Screen, select “Settings”
3) Press “Keypad,” Press “7253” and “Enter”

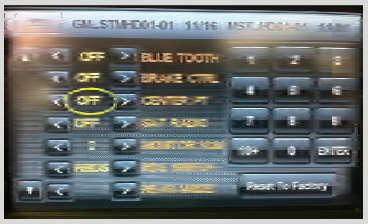
! CRITICAL

Select the individual Settings as needed for the installed components

Selectable options vary by product and installation. Select the options as applicable for the installed optional components.

<u>You can also Enable/Disable Rosen Bluetooth in this menu</u>

If your vehicle has Bose Premium Centerpoint, “Center Pt” setting will need to be <u>“ON”</u> in this installer settings menu. If you have a non-amplified OR Standard Bose vehicle, this setting will need to be in the <u>“Off”</u> position



! CRITICAL

<u>BLUETOOTH PHONE NOTICE</u>

<u>If this Vehicle is equipped with **FACTORY BLUETOOTH**, the Rosen Integrated Bluetooth must be set to **OFF** in the Installer Setting Menu.</u>

ONLY ONE BT System can be Paired at a time (either Factory or RES)

STOP

Copyright 2010 All Rights Reserved

Perform Pre-Delivery Tests

You will need to perform several Pre-Delivery Tests to ensure customer satisfaction

STEP 7

Turn the vehicle ON and System ON

Confirm the unit starts up properly

Troubleshooting

1) Reset the System while the Vehicle is ON
2) Confirm all connectors are properly installed
3) Check the Vehicle and System Fuses

Select RADIO as the Source

Confirm that the AM and FM reception are as expected

Troubleshooting

1) Confirm Antenna is properly connected.
2) Reset the System

Select SATELLITE RADIO as the Source

Confirm Channel 001 is present after ~5 minutes

Troubleshooting

1) Confirm RCA connectors in the Harness are connected
2) Confirm the Antenna is an unobstructed view of the sky
3) Reset the System

Select iPOD as the Source (if Equipped)

Confirm iPod is communicating a playback is OK

Troubleshooting

1) Confirm iPod Version Compatibility – not all are compatible
2) Confirm the harnesses are properly engaged
3) Reset the System

Select CD as the Source

Confirm CD audio playback is OK

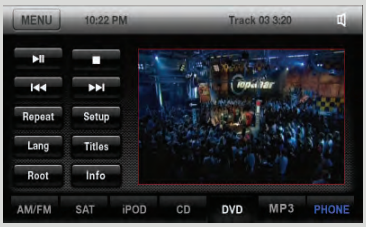
Troubleshooting

1) Confirm the Disc is Store Bought and in good condition
2) Reset the system

Copyright 2010 All Rights Reserved

Select DVD as the Source

Confirm DVD video playback is OK



Troubleshooting

1) Ensure the Park Brake is set to view video
2) Confirm the Disc is Store Bought and in good condition
3) Reset the system

Select Phone as the Source (Rosen Bluetooth only!)

Confirm Phone Pairing is successful

Troubleshooting

1) Confirm the Phone has BT and is in discoverable mode
2) Confirm the Phone is compatible with the system
3) Reset the system

Select NAV as the Source

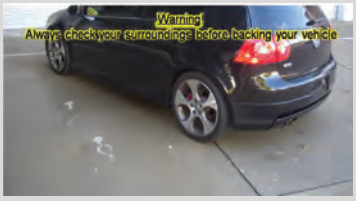
Confirm the Navigation loads and signal strength is OK

Troubleshooting

1) Confirm the antenna has an unobstructed view of the sky
2) Confirm the antenna is located on the outside of the vehicle
3) Confirm the antenna connection is properly tightened

Select Reverse Camera (If Equipped)

Confirm the backup camera screen shows in reverse



Troubleshooting

1) Confirm the Camera is set to ON in the Installer Settings
2) Confirm the Reverse Trigger wire is attached properly
3) Confirm the Camera is receiving 12VDC as required

Select OnStar (If Equipped) Confirm OnStar Operator is heard

Troubleshooting

1) Confirm the OnStar Connector is engaged in the unit
2) Reset the System

Copyright 2010 All Rights Reserved

System Troubleshooting

No Operation:

There are a number of GM Radios which look identical but operate on different data protocol. You may experience problems if the OE System was not properly identified or if the harness has become damaged. The Following Table will help to Resolve Typical Problems.

Installed Rosen System	Symptom	Cause	Solution
Any	**Will not Turn On**	System is Turned OFF	Press the Left Knob to turn the system ON
	Will not Turn On	Vehicle is 11Bit Bus	Check Compatibility Matrix at the beginning of this Guide (These systems are 29Bit Bus only)
	Will not Turn On	System is Locked UP	Press & Hold the Reset for 5-10 Seconds
	Will not Turn On	Harness Damaged	Check/Replace the Main Harness

Audio Problems:

Because there are a number of Audio Options in the GM Product Line, you may experience problems if the OE Audio System was not properly identified. The Following Table will help to resolve typical Problems.

Installed Rosen System	Symptom	Cause	Solution
DS-GM1010-H11/H14	**No Audio**	Vehicle is a Centerpoint	Use DP-GM1012 harness "Center Pt" setting needs to be "on"
	Over-Driven Audio	Vehicle is a Analog Amp	Use DP-GM1016 harness "Center Pt" setting needs to be "off"
	Low Audio	Vehicle is a Non-Amp	Use DP-GM1016 harness "Center Pt" setting needs to be "off"
	Low Uncontrolled Audio	Vehicle is a Non-Amp	Use DP-GM1016 harness "Center Pt" setting needs to be "off"
	Loud Uncontrolled Audio	Vehicle is a Analog Amp	Use DP-GM1012 harness "Center Pt" setting needs to be "off"
	Muted Rear Speaker Audio	OEM Rear Seat Audio system turned ON	Turn Rear Seat Audio Button on Center Console to turn it OFF

Copyright 2010 All Rights Reserved

Bluetooth problems:

Because some vehicles in the GM Product Line contain a Factory Blue Tooth System, you may experience problems if the OE Blue Tooth System was not properly identified. The Following Table will help to resolve typical Problems.

Vehicle Configuration	Symptom	Cause	Solution
NO Steering Wheel Buttons	**No Blue Tooth Function on the Rosen Nav**	Installer Setting Menu BT is Set to OFF	Set RES BT Setting to ON
Audio Steering Wheel Buttons Only, **NO Factory BT Button**	**No Blue Tooth Function on the Rosen Nav**	Installer Setting Menu BT is Set to OFF	Set RES BT Setting to ON
	Don't know how to Pickup or End a Call	Buttons are not supported for BT use	See Owner's Manual / Quick Start Guide
Audio Steering Wheel Buttons **AND** Factory BT Button on Steering Wheel (OEM Bluetooth Only)	**Factory BT Reports No Phone Paired**	BT is Not Paired or is Paired with Rosen System – Not Factory	Un-Pair with RES BT Set RES BT OFF Pair with Factory System
	Customer wants to use Rosen BT System	Installer Setting Menu BT is Set to OFF	Set RES BT Setting to ON Do NOT Pair with Factory System

XM Radio Problems:

Because some vehicles have an XM Option and others do not in the GM Product Line, you may experience problems if the OE XM System was not properly identified. The Following Table will help to resolve typical Problems.

Vehicle Configuration	Symptom	Cause	Solution
Factory XM	**XM Says No Device**	Vehicle is NOT Factory XM	Purchase and install the GM XM Tuner Kit P/N GM17801150
	No XM Stations	XM Antenna cannot receive a signal	Move the Vehicle location to outside in a clear area
	No Audio	XM Audio Harness is not installed	XM Harnesses not connected properly. See pg. 14
	Limited XM Stations	XM has not been registered	Follow GM Instructions to enable the XM Service
No Factory XM	**XM Says No Device**	No XM Tuner is Installed	Purchase and install the GM XM Tuner Kit P/N GM17801150
	No XM Stations		
	No Audio		
	Limited XM Stations		

Copyright 2010 All Rights Reserved

Service and Optional Parts List

Part Number	Description	Part Number	Description
DP-GM1011	Quick Reference Guide	DP-GM1012	Harness, Amplified
DP-GM1014	Installation Guide	DP-GM1016	Harness, Non-Amplified
DP-1021-H11	Card, SD w/ maps	DP-1004	Remote Control
DP-1007	Harness, USB Adaptor	DP-1001	Manual, Owner's
DP-1003	Manual, Navigation	DP-1062	Harness, Media Kit*
DP-1008	Harness, AUX Out*	DP-1009	Harness, AUX IN*
DP-1010**	Harness, Sensors/Camera	DP-1023	Pin, Stylus
DP-1011	Harness, Dolby 5.1/Amp*	DP-1022	Antenna, GPS
DP-1047	GPS Antenna Windshield Mount	DP-1066	Camera, License Plate Black
DP-1067	Camera, License Plate Chrome	DP-1068	Camera, Universal Black
DP-1013-1	Harness, iPod Interface		

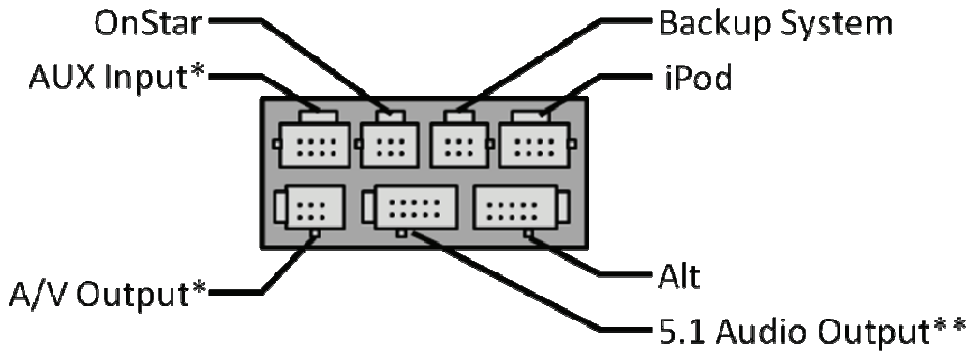
NOTE:

Items marked "*" are not compatible with all systems, contact Rosen Technical Support for specific compatibility. The DP-1062 kit contains DP-1008, DP-1009, DP-1011

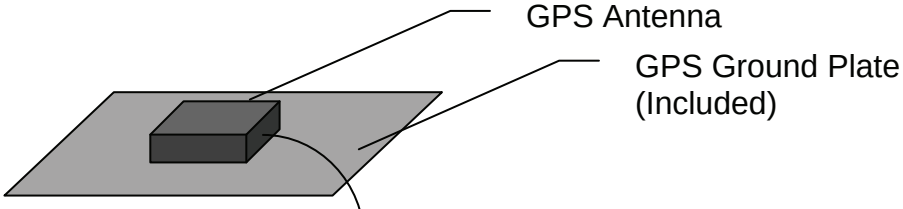
** Included with DP-1066, DP-1067, and DP-1068

Part Number	Description
GM17801150	XM Upgrade Kit - OEM (Sourced from GM Dealerships)

Connector Block and GPS Ground Plate



* Only applicable in vehicles without OEM Rear Seat Entertainment
** Only applicable in vehicles without Bose Amplified Audio System

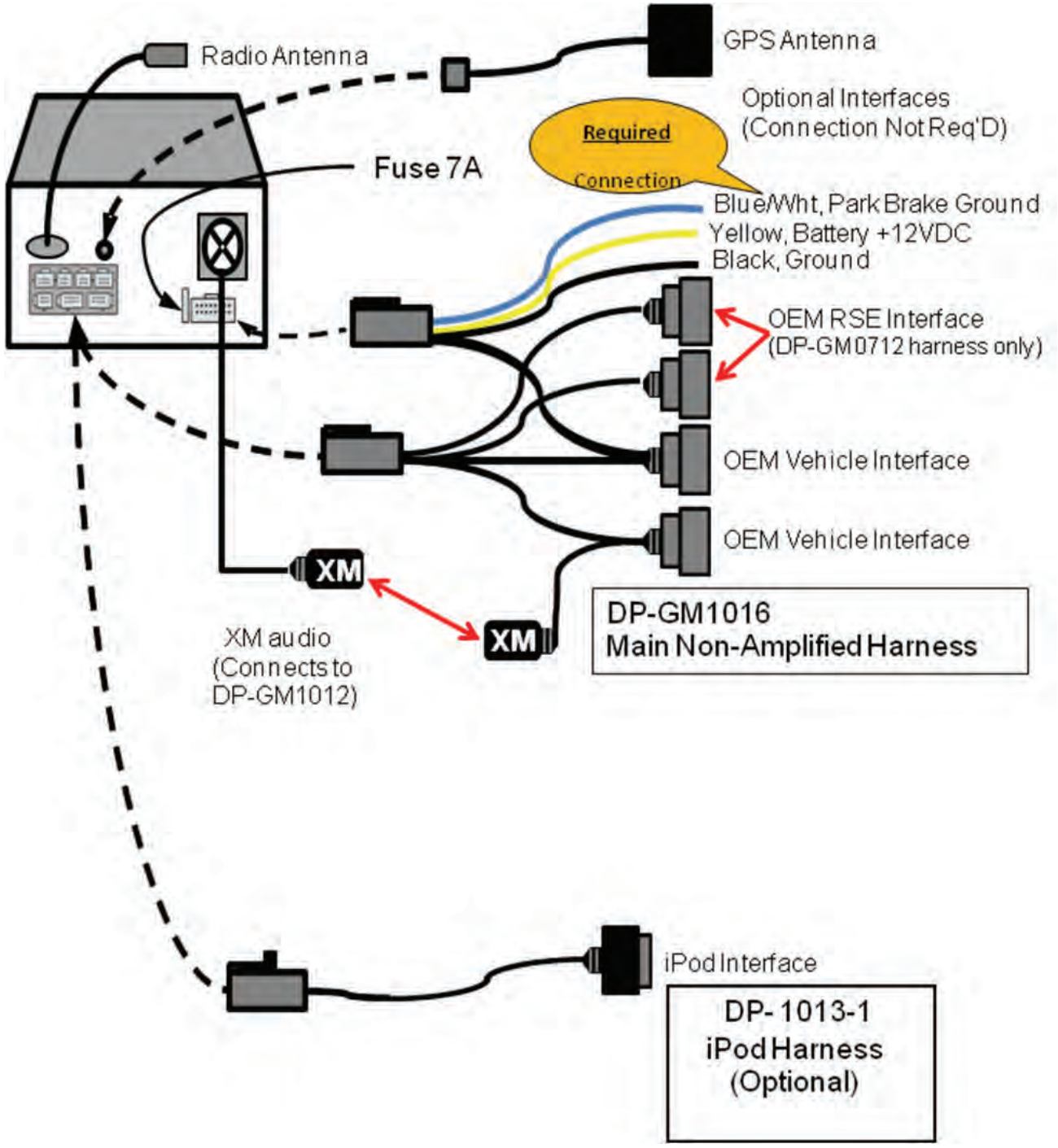


Note: If the GPS Antenna cannot be placed on the outside of the Vehicle, **Included Ground Plate MUST BE USED**.

Failure to use Ground Plate can reduce the efficiency of the antenna by more than 30%

Copyright 2010 All Rights Reserved

Main Harness Diagrams



Copyright 2010 All Rights Reserved

www.RosenEntertainment.com

Copyright 2010 All Rights Reserved